

State of California
Department of Food and Agriculture
Division of Measurement Standards

Certificate Number: 5100(a)-01
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California Type Evaluation Program
Certificate of Approval
for Measuring Devices

For:

Water Meter
Positive Displacement
Model: C-700 Series
Size: See Table Below
Maximum Flow Rate: See Table Below
Minimum Flow Rate: See Table Below

Submitted by:

ABB Water Meters, Inc.
1100 S.W. 38th Avenue
Ocala, FL 34474
Tel: (800) 874-0890
Fax: (352) 368-1950
Contact: John Corey

Standard Features and Options

Unit of measure: Gallons or cubic feet
Magnetic drive
Electronic pulse output (not evaluated)*

Bronze main case
External threaded spuds

Meter Description:

Model	Description	Flow Rate (gpm)
C-700	5/8" x 1/2" Bronze and Polymer Case	1/4 - 25
	5/8" x 3/4" Bronze and Polymer Case	1/4 - 25
	3/4" x 3/4" Bronze and Polymer Case	1/2 - 30
	1" Bronze Case	3/4 - 50

* **Register Model:** Inside R
 Digital B Pulser
 Scancoder RS Pulser

NOTE: Approved for use when installed in a "**HORIZONTAL**" or "**VERTICAL**" position according to the manufacturer's instructions only.

These devices are to be installed where they are protected from excessive heat and freezing conditions.

These devices were evaluated under the California Type Evaluation Program (CTEP) and were found to comply with the applicable requirements of California Code of Regulations for "Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

Effective Date: July 6, 2001

Mike Cleary, Director

ABB Water Meters, Inc.
Water Meter, Positive Displacement
Model: C-700 Series

Application: Approved for use as a domestic cold-water meter only when installed in a "**HORIZONTAL**" or "**VERTICAL**" position. The flow direction indications are cast into the single pipe connector, main case.

NOTE: Written installation instructions shall be included with each meter. Additionally, field installations should be verified according to the manufacturer's installation requirements.

Identification: The manufacturer's name and model designation are silk-screened on the register indicating face. The serial number prefaced with "S/N" is engraved on the outlet of the meter body.

Sealing: The water meter can be sealed with a wire security seal threaded through a hole on the register locking cap to a hole on the measuring chamber. Additionally, the bottom plate can be sealed with a wire security seal threaded through a hole in the bottom bolts.

Operation: The Model C-700 is an oscillating piston style, positive displacement water meter. The water meter utilizes a piston which the water rotates in a measuring chamber, each piston revolution being equivalent to a known volume of water. The piston movement is transferred by a magnetic drive to a straight reading sealed register.

Test Conditions: This certificate supersedes Certificate of Approval Number 5100-00 and is issued to add the cubic feet unit of measure option feature, register Models C-700 InsideR, C-700 Digital, C-700 Scancoder, C-700 B pulser, and C-700 RS pulser. The current and previous test conditions are repeated below for reference.

Certificate of Approval Number 5100(a)-01: The Model C-700 InsideR in gallon units, C-700 Scancoder in cubic feet units, and C-700 RS pulser in gallon units were submitted for evaluation. The emphasis of the examination was on device design, operation, marking requirements, and performance. Three tests each at 15 gpm, 3 gpm, and 1/4 gpm were conducted on the register designs listed.

Certificate of Approval Number 5100-00: This Certificate was issued to change the name of the company from Kent to ABB Water Meters, Inc. The ABB Model C-700 was evaluated on the marking requirements and the provision for sealing. Evaluation of the device design, performance, and installation requirements is based on previous testing conducted for Certificate of Approval Number 2148-82.

The results of the evaluations and information provided by the manufacturer indicate the devices comply with applicable requirements.

Type Evaluation Criteria Used: Title 4, California Code of Regulations, 2001 Edition

Tested By: J. Raspino (CA), D. Reiswig (CA)